

Marquise 1

by Arya Akhavan (September 2012)

Angles for R.I. = 1.620

41 + 12 girdles = 53 facets

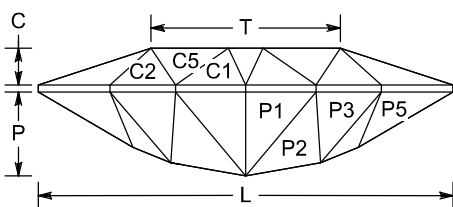
2-fold, mirror-image symmetry

96 index

$L/W = 2.270$ $T/W = 1.036$ $U/W = 0.513$

$P/W = 0.457$ $C/W = 0.200$

$Vol./W^3 = 0.505$



PAVILION

P1	42.66°	02-46-50-94	Cut to centrepoin.
P2	41.53°	03-45-51-93	Meet at culet.
G1	90.00°	02-46-50-94	Set stone size.
P3	43.57°	06-42-54-90	Meet P1, P2, G1
P4	42.76°	07-41-55-89	Meet P2, P3
G2	90.00°	06-42-54-90	Meet P1, P2, G1, P3 (level girdle)
P5	43.66°	10-38-58-86	Meet P3, P4, G2
G3	90.00°	10-38-58-86	Meet P3, P4, G2, P5 (level girdle)

CROWN

C1	41.15°	02-46-50-94	Set girdle width.
C2	37.61°	06-42-54-90	Level girdle.
C3	35.00°	10-38-58-86	Level girdle.
C4	39.43°	96-48	Meet G1, C1
C5	35.98°	05-43-53-91	Meet G1, G2, C1, C2
C6	18.00°	24-72	Meet G3, C3
T	0.00°	Table	Meet C1, C4, C5; C2, C3, C5, C6

This is a nice, simple marquise that works for smaller stones. It works perfectly in tourmaline crystals that have clipped or included ends, and was designed for indicolite. There's a surprisingly nice reflection pattern that comes through the table. Works in materials from feldspar to zircon (RI = 1.52 - 1.93) with no changes.

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